

## Taulukkotietoa:

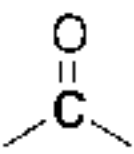
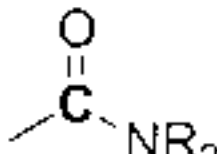
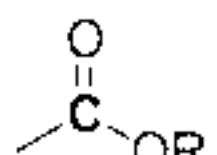
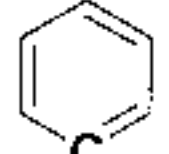
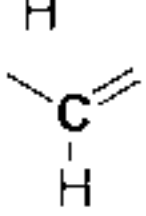
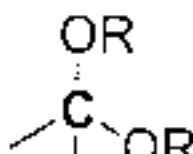
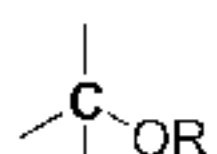
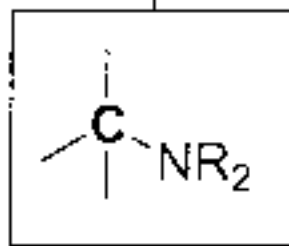
IR-spektrin alueet:

4000      3000      2000      1500      1000

X-H				
C-H	C≡C			
O-H	C=N	C=C	C-O	
N-H		C=O	C-F	
		C=N	C-Cl	

$^{13}\text{C}$  NMR-spektrien tyypilliset kemialliset siirtymät:

220      180      110      90      50      0

	 	 		 
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$^1\text{H}$  NMR-spektrien tyypilliset kemialliset siirtymät:

*may change up to  $\pm 1.5$  ppm by electron-withdrawing or -releasing substituents*

